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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

05514

7590

07/23/2003

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112

**EXAMINER** 

NGUYEN, LAMSON D

ART UNIT

CLASS-SUBCLASS

2861

347-040000

DATE MAILED: 07/23/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878

TITLE OF INVENTION: LIQUID EJECTING RECORDING HEAD AND LIQUID EJECTING RECORDING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1300	\$300	\$1600	10/23/2003	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE
Commissioner for Patents
Alexandria, Virginia 22313-1450

Eax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee not			
CURRENT CORRESP	ONDENCE ADDRES	S (Note: Legibly mark-up with any corrections or use	Block I) Note: A certificate of
05514	7590	07/23/2003	Fee(s) Transmittal.

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name		
(Signature		
(Date		

APPLICATION NO. FILING DATE FIRST			ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878

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EXAM	INER	ART UNIT	CLASS-SUBCLASS		
NGUYEN, L	AMSON D	. 2861	347-040000		
CFR 1.363).	ence address or indication of	`	2. For printing on the patent fr the names of up to 3 registered or agents OR, alternatively, (2	patent attorneys	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			single firm (having as a mem	iber a registered	
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			attorney or agent) and the na registered patent attorneys or ag is listed, no name will be printed	gents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

	·			
Please check the appropriate assignee category	or categories (will not be printed on the patent)	☐ individual	☐ corporation or other private group entity	y 🚨 government
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amou	nt of the fee(s) is er	aclosed.	
☐ Publication Fee	☐ Payment by credit ca	rd. Form PTO-203	B is attached.	
☐ Advance Order - # of Copies	☐ The Commissioner i Deposit Account Numb	s hereby authorized per :	by charge the required fee(s), or credit any enclose an extra copy of this form).	overpayment, to
Commissioner for Patents is requested to apply	the Issue Fee and Publication Fee (if any) or to	re-apply any previo	ously paid issue fee to the application identif	fied above.
(Authorized Signature)	(Date)		·	
NOTE; The Issue Fee and Publication Fee other than the applicant; a registered attorninterest as shown by the records of the United	if required) will not be accepted from anyone by or agent; or the assignee or other party in States Patent and Trademark Office.		•	
application. Confidentiality is governed by 35 estimated to take 12 minutes to complete, incompleted application form to the USPTO. case. Any comments on the amount of tir suggestions for reducing this burden, should Patent and Trademark Office. U.S. Dep:	37 CFR 1.311. The information is required to h is to file (and by the USPTO to process) ar U.S.C. 122 and 37 CFR 1.14. This collection is luding gathering, preparing, and submitting the Time will vary depending upon the individual ne you require to complete this form and/or be sent to the Chief Information Officer, U.S. artment of Commerce, Alexandria, Virginia COMPLETED FORMS TO THIS ADDRESS. dria, Virginia 22313-1450.			
Under the Paperwork Reduction Act of 19 collection of information unless it displays a v	95, no persons are required to respond to a alid OMB control number.			



# United States Patent and Trademark Office

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09/742,431	12/22/2000	Mineo Kaneko	684.3120	8878	
05514	05514 7590 07/23/2003		EXAMINER		
FITZPATRIC	K CELLA HARPER &	NGUYEN, LA	MSON D		
NEW YORK, N			ART UNIT	PAPER NUMBER	
			2861		
			DATE MAILED: 07/23/2003		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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05514 7590 07/23/2003			EX	EXAMINER		
FITZPATRICK 30 ROCKEFELL	CELLA HARPER & SC	INTO .	NGUYEN	I, LAMSON D		
NEW YORK, NY			ART UNIT	PAPER NUMBER		
UNITED STATE	S		2861			
			DATE MAILED: 07/23/200	3		

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application	No.	Applicant(s)	100
Notice of Allowability	09/742,431		KANEKO ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Lamson D N	guven	2861	
		<u>g-</u> ,	200.	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS i) or other appro RIGHTS. This a	<ul> <li>CLOSED in this appopriate communication opplication is subject to</li> </ul>	olication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>RCE and pre-amend</u>	dment dated 01	July 2003.		
2. The allowed claim(s) is/are <u>1-23</u> .				
3. The drawings filed on 22 December 2000 are accepted by				
<ol> <li>Acknowledgment is made of a claim for foreign priority un</li> <li>a)    ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	ider 35 U.S.C. {	§ 119(a)-(d) or (f).		
<ol> <li>Certified copies of the priority documents hav</li> </ol>	e been receive	d.		
<ol><li>Certified copies of the priority documents hav</li></ol>	e been receive	d in Application No	·	
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have	been received in this	national stage applicat	ion from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
<ol> <li>Acknowledgment is made of a claim for domestic priority ι</li> </ol>			onal application).	
(a) The translation of the foreign language provisional				
<ol> <li>Acknowledgment is made of a claim for domestic priority ι</li> </ol>	under 35 U.S.C	. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7.   A SUBSTITUTE OATH OR DECLARATION must be substituted by the substitute of the substitute	f this application	n. THIS THREE-MON attached EXAMINER	ITH PERIOD IS NOT 'S AMENDMENT or N	EXTENDABLE.
8. CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Draftspe	rson's Patent D	rawing Review ( PTO	-948) attached	
1) hereto or 2) to Paper No		والمراجع المراجع		·
(b) including changes required by the proposed drawing			een approved by the E	
(c) including changes required by the attached Examine	rs Amenament	/ Comment or in the C	Diffice action of Paper i	No
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape				
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR				lote the
Attachment(s)				
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>		4☐ Interview Summa 6☐ Examiner's Ame	al Patent Application (F ary (PTO-413), Paper ndment/Comment ement of Reasons for <i>I</i>	No
			•	

Application/Control Number: 09/742,431

Art Unit: 2861

#### REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

\* the primary reason for the allowance of claims 1-23 is the inclusion of the limitation of an ink jet printhead comprising a first nozzle array group and a second nozzle array group, wherein the first group comprising a first array ejecting a first liquid and a second array ejecting a second liquid and the second group comprising a third array ejecting the first liquid and a fourth array ejecting the second liquid, and wherein the first array and the second array are aligned in the scanning direction and the third array and the fourth array are aligned in the scanning direction and the first and the third array are adjacent to each other and the the nozzles of the first array and the nozzles of the third array are disposed with a deviation in the subscanning direction so as to be complementary to each other in the scanning direction. It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamson D. Nguyen whose telephone number is (703)306-4547.

AMSON NGUYEN RIMARY LIMANIKEIR

RIMAHYEXAMINER